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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,066	07/28/2003	Gregory S. Herman	200209441-1	5837
22879	7590 02/23/2006		EXAM	INER
	PACKARD COMPAN	PARSONS, THOMAS H		
	400, 3404 E. HARMON JAL PROPERTY ADM		ART UNIT	PAPER NUMBER
	NS, CO 80527-2400		1745	

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/629,066	HERMAN ET AL.	
Ofi	fice Action Summary	Examiner	Art Unit	
		Thomas H. Parsons	1745	
<i> The ۱</i> Period for Repl	NAILING DATE of this communication app Y	ears on the cover sheet with the c	orrespondence address	
WHICHEVEI - Extensions of trafter SIX (6) Mr - If NO period for - Failure to reply Any reply recei	RED STATUTORY PERIOD FOR REPLY R IS LONGER, FROM THE MAILING DATE in may be available under the provisions of 37 CFR 1.13 DNTHS from the mailing date of this communication. It reply is specified above, the maximum statutory period we within the set or extended period for reply will, by statute, wed by the Office later than three months after the mailing erm adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin iiil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
1)⊠ Respo	nsive to communication(s) filed on <u>28 Ju</u>	<u>ly 2003</u> .		
<i>,</i> —	•	action is non-final.		
• ——	this application is in condition for allowar			
closed	in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of C	Claims			
4)⊠ Claim(s) <u>1-44</u> is/are pending in the application.			
• '	the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.			
6)☐ Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8)⊠ Claim(s) <u>1-44</u> are subject to restriction and/or e	election requirement.		
Application Pap	pers			
9)∐ The spe	ecification is objected to by the Examiner	·.		
10)☐ The dra	awing(s) filed on is/are: a)□ acc∈	epted or b) \square objected to by the \square	Examiner.	
Applica	nt may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replace	ement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d)	
11)∐ The oat	th or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 3	5 U.S.C. § 119			
<i>,</i> —	vledgment is made of a claim for foreign b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	n-(d) or (f).	
.—	Certified copies of the priority documents	have been received		
	Certified copies of the priority documents		on No.	
	Copies of the certified copies of the prior	• •		
	application from the International Bureau	•	3	
	attached detailed Office action for a list of		d.	
Attachment(s)		_		
	rences Cited (PTO-892) sperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		
3) 🔲 Information Dis	sperson's Patent Drawing Review (PTO-948) sclosure Statement(s) (PTO-1449 or PTO/SB/08) ail Date		atent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-14, drawn to a method of obtaining hydrogen, classified in class 429, subclass 13.
 - II. Claims 15-19, drawn to a method of operating a fuel cell, classified in class 429, subclass 17.
 - III. Claims 20-26, drawn to a method of heating a fuel cell, classified in class 429, subclass 26.
 - IV. Claims 27-44, drawn to a fuel cell, classified in class 429, subclass 12.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I, II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different modes of operation.

Invention I passes a gas stream over an anode effluent stream and obtains a hydrogen gas stream from the anode effluent stream

In contrast to that of Invention I, Invention II operates a fuel cell during start up by replenishing the stored hydrogen by passing a hydrogen gas steam obtained from an anode effluent stream into a hydrogen storage unit.

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In contrast to that of Inventions I and II, Invention III heats a fuel cell by passing oxygen over an active material in a hydrogen storage unit to create an exothermic reaction and uses the heat from the reaction to heat the fuel cell.

- 3. Inventions III and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process of heating a fuel cell may be practiced by another and materially different apparatus such as by heat strips coiled inside the fuel cell and energized by an external power source can be used to pre-heat the fuel cell wherein the external power source can be any suitable source such as a battery powered generator.
- 4. Inventions I and IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process of obtaining hydrogen can be practiced by another and materially different process such as by an electrolytic cell.
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

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6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas H. Parsons whose telephone number is (571) 272-1290. The examiner can normally be reached on M-F (7:00-4:30) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PATRICK JOSEPH RYAN

AY PATENT EXAMINER

Thomas H Parsons Examiner Art Unit 1745
